

1       **A GOLF CLUB SHAFT FORMED FROM METAL-CONTAINING PREPREG**  
2       **AND NON-METAL FIBER PREPREG AND METHOD OF MAKING THE SAME**

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4       **ABSTRACT OF THE DISCLOSURE**

5           Disclosed is a golf club shaft of sheet-wound construction that  
6       approximates the characteristics of a steel shaft. The golf club shaft is formed  
7       using metal-containing prepreg and non-metal fiber prepreg in order to provide a  
8       sheet-wound club having an elasticity index (EI) value of  $3.0 \sim 4.5 \text{ kgf} \cdot \text{m}^2$ , a  
9       mass 80~130g, and a center of mass that is 45~51% of the overall length of the  
10      shaft. The metal-containing prepreg is wrapped around a mandrel near the tip  
11      of the shaft in order to position the center of mass where desired. The non-metal  
12      fiber prepreg is wrapped around the mandrel to provide the desired EI value and  
13      overall mass. Additional layers of metal-containing prepreg may be wrapped  
14      beyond the metal-containing prepreg wrapped near the tip in order to vary the  
15      characteristics of the golf club shaft. The golf club shaft is preferably formed on a  
16      mandrel that includes an annular recess at its tip in order to accommodate the  
17      metal-containing prepreg that is wrapped near the tip.